

- 1 -

piece 1, NC\_000913, ihfB\_ycaI-, config: linear, direction: -, begin: 963572, end: 963316

5' \*963570 \* 963560 \* 963550 \* 963540 \* 963530 \* 963520 \* 963510 \* 963500 \*  
- t a t g c a t a c a c c g a c t g t c g t t a t t c a t g c a c c c t c c t g t t a t g g a a a g t g t g c a c t t g t t g a g c g g t t g t c t g 3'  
- tyr - ala - tyr - thr - asp - cys - arg - tyr - phe - his - ala - pro - leu - pro - val - tyr - gly - lys - cys - ala - thr - leu - leu -  
- met - his - thr - pro - thr - val - val - ile - phe - met - his - pro - ser - leu - phe - met - glu - ser - val - gln - leu - cys -  
- cys - ile - his - arg - leu - ser - leu - phe - ser - cys - thr - pro - pro - cys - leu - trp - lys - val - cys - asn - phe - val - glu - arg - leu - ser - gly -

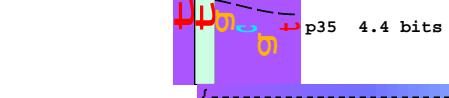
... 1 NC\_000913.ycaI



{ } p35-(23)-p10 963547 Gap 1.4 bits  
p35-p10 963547 total 4.1 bits

5' \*963490 \* 963480 \* 963470 \* 963460 \* 963450 \* 963440 \* 963430 \* 963420 \*  
- g t g g g a a t t t g c g t t c c c c g a g c a t a t t c a g a a g a a t t a c t c a g a a a g g g t g a a a a c t g t t c a a a a c t c t c g c a g g c 3'  
- val - gly - ile - leu - arg - ser - pro - arg - his - ile - gln - lys - asn - leu - thr - lys - gly -  
- gly - asn - phe - ala - phe - pro - glu - ala - tyr - ser - glu - alu - phe - asn - glu - arg - val - lys - thr - val - gln - asn - ser - ala - arg - gln - leu -

... sd



{ } p35-(24)-p10 963457 Gap 2.4 bits  
p35-p10 963457 total 4.7 bits

5' \*963410 \* 963400 \* 963390 \* 963380 \* 963370 \* 963360 \* 963350 \* 963340 \* 963330 \*  
- t t c c a g t t c c a g a t t a g a a a a t g a a a a a a g c a c c c g a c a g g t g c t t t t c t c a g t t t g a g t a a a a a a c t t a a c c 3'  
- pro - val - pro - asp - fMet - lys - lys - ala - pro - asp - arg - cys - phe - ser - leu - val - gln - val -  
- pro - val - pro - asp - fMet - leu - phe - ser - arg - ser - ser - leu - ser - lys - lys - leu - asn - arg -

... ir ihfB\_ycaI- orf 15 codons <----- ... NC\_000913.ihfB

{ } sd-(10)-ir 963389 Gap 2.7 bits

|-----| sd-ir 963389 ihfB\_ycaI- total 7.2 bits

5' \*963320 \*  
- g t a a a t t a t t g g c a g c 3'

- fMet - ala -  
lys - tyr - trp - arg -  
... NC\_000913.ihfB



{ } p35-(22)-p10 963325 Gap 2.3 bits  
p35-p10 963325 total 5.1 bits

... p35-(22)-p10 963325 Gap 5.1 bits  
... p35-p10 963325 total 5.1 bits